TRANSPORTATION WORKER IDENTIFICATION CREDENTIAL (TWIC) PROGRAM





Card Tech / Secure Tech November 19, 2002

Program Manager Elaine Charney

About TWIC

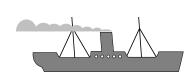


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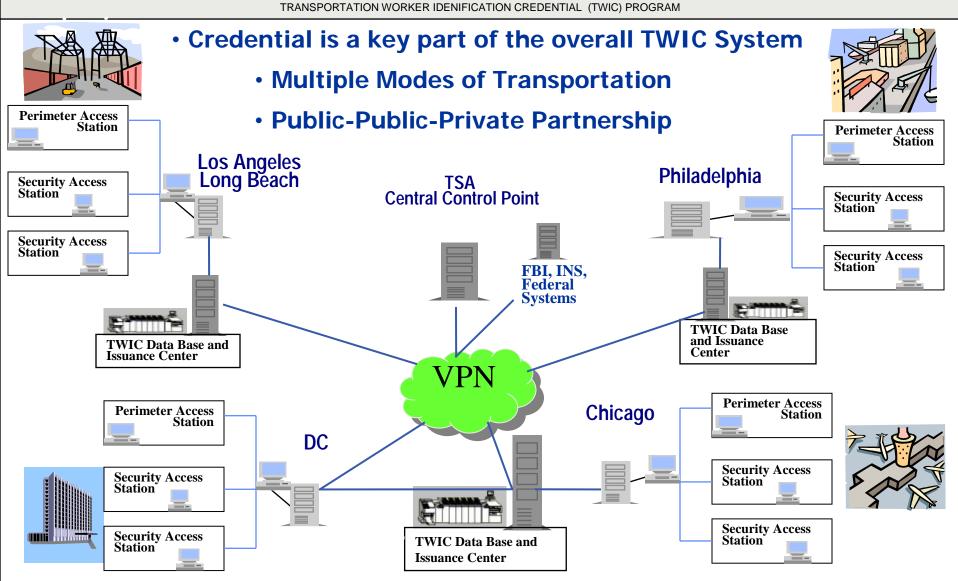
<u>Vision:</u> Improve security by establishing a transportation system-wide common credential, used across all modes, for all transportation workers requiring unescorted physical and logical access to secure areas of the transportation system.

Goals:

- One standardized credential, universally recognized and accepted across the transportation system.
- One integrated and secure network of databases.
- Able to be used locally within the current facility infrastructure.
- Meets multiple levels of secure access requirements.
- Balances security, commerce and privacy requirements.
- Makes use of secure reference biometric.

System Overview





TWIC Regional Pilots



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- Leverage Key Regional Stakeholders
- Evaluate Hierarchy of Solutions and Options
- Business Case, Cost Benefit, Performance Based Analysis

Port West Regional Security Access Station Pilot **Airport Security Access** Regional Station TWIC Data Base and **Issuance Center Port** Security **Access Station**

Interoperability within Region

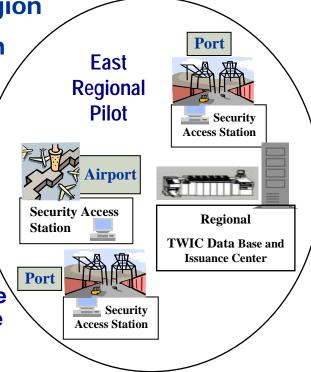
Building Block Approach

Leverage to National

Requirements-Based Evaluation of 4-6 Access Enabling Technologies

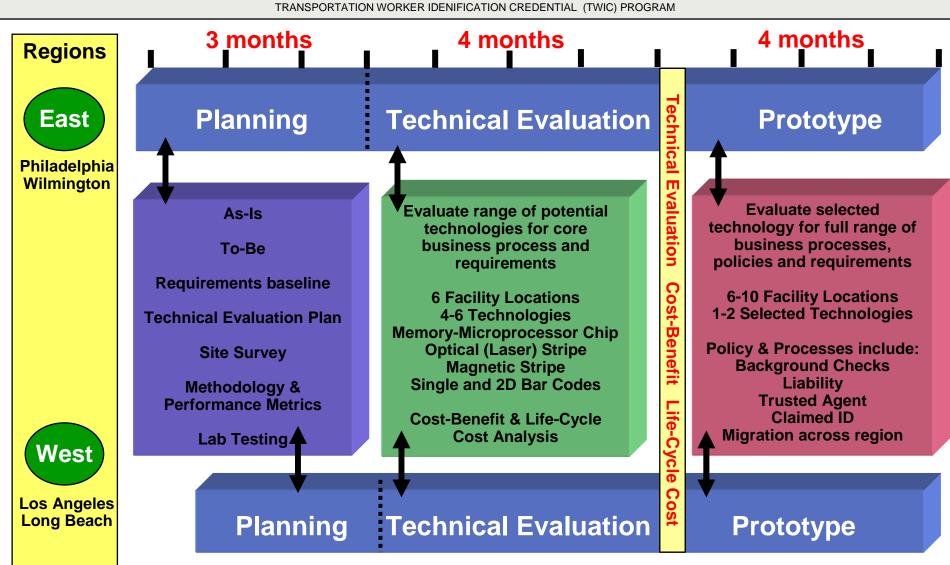
Barcodes, Optical(Laser) Stripe Smart Chips & Magnetic Stripe

At 6 Facilities in each Region



Project Overview - Regional Pilots





Planning Phase



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Working with our key regional stakeholders we will:

- Document the current state of physical and logical access business processes and infrastructure
- Develop the "To-Be" system and final set of requirements
- Develop detailed plans for the Technical Evaluation Phase
 - Site surveys, Risk Assessment & Mitigation, Investment & Training Plans
 - Detailed information on location, facilities, business process, estimated costs, etc.
- Develop the evaluation methodology and performance metrics
- Develop the preliminary requirements-based business plans

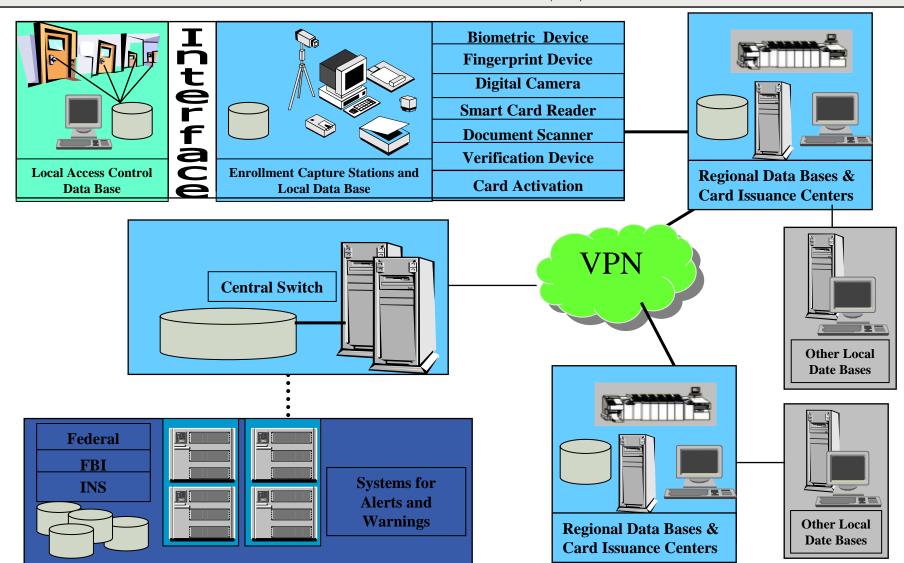
We will also continue our open investigation of potential technology and technical solutions

- Broad Agency Announcement
- Prepare and release RFI

Major Components



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Technical Evaluation Phase



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Purpose: Test and evaluate a broad range of potential technical solutions against our core business processes and requirements.

- Technical, Performance, Cost-Benefit, and Life-Cycle Cost Analysis to determine optimal technologies for further evaluation in the prototype phase
- Conduct evaluations in four major TWIC system components
 - 1. Access Technologies
 - 2. Enrollment Center
 - 3. (Regional) Data Base
 - 4. (Regional) Card Production, Personalization and Issuance

Technical Evaluation Phase (cont'd)



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Access Technologies

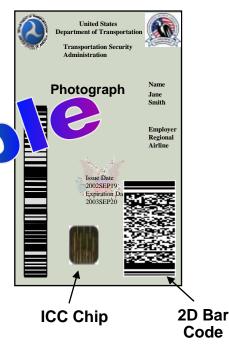
Provide positive identification & verification, by linking the individual via the biometric in the token, to the background information, to the granting of access. Based on our preliminary requirements assessment, we intend to test and evaluate the following:

Magnetic

Stripe

- Digital Photograph & Holographic Image
- Optical (Laser) Media Stripe
- Memory--Microprocessor ICC Chips
- Magnetic Stripe
- 2-D Bar Code
- Linear (3x9) Bar Code
- Others as required





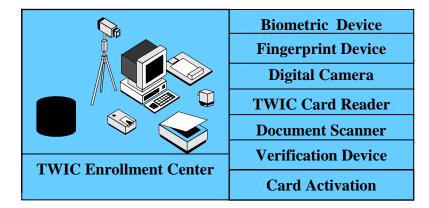
Technical Evaluation Phase (cont'd)



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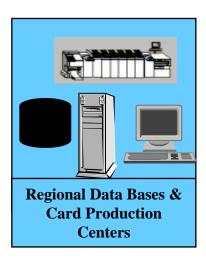
2. Enrollment Center

- Principal location for process to obtain TWIC
- Record personal data, background information, biometric, and digital photograph
- Test and evaluate a range of individual technical solutions & two integrated configurations



3. (Regional) Database, and...

4. (Regional) Card Production, personalization and issuance



- Regional site hosts the TWIC application program and relational database server, and provides service to all TWIC-enabled facilities in the region
 - Regional data and enrollment records
 - Biometric Templates
- Provides regional card production, personalization and issuance service

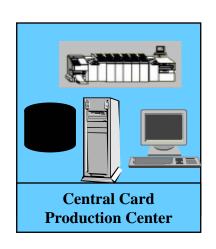
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Technical Evaluation Phase (cont'd)



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5. (Central) Card Production, personalization and issuance



- We will also evaluate a centralized card production site to provide high capacity card production, personalization and issuance services to offset regional production requirements.
- We are also investigating the potential use of existing federal card production facilities to provide central TWIC production for multiple regions This would leverage our investment on current infrastructure.

Prototype Phase



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Purpose: Evaluate and refine the TWIC solution using the selected technologies within the full range of business processes and requirements

- Retrofit access technologies as required
- Expand to select facility locations across the region
- Expand the card population
- Expand migration of card holders to multiple facilities within region
- Test the key business process components
 - Background Checks
 - Claimed Identity
 - Trusted Agent
 - Liability
 - Cost Sharing

TWIC Benefits



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- ✓ Positive match of credential-person-background check through the use of a secure reference biometric.
- ✓ Centralized ability to interface with other federal agencies and databases for "watch list" and intelligence information.
- ✓ Centralized record control, in conjunction with a single network of databases, provides capability to quickly disseminate "threat alerts" throughout the system and to revoke security access system-wide for specific individuals or deal with lost-stolen cards.
- ✓ Reduces risk of fraudulent / altered credentials through use of state-ofthe-art anti-tamper and anti-counterfeit technologies.
- Minimize the requirement for redundant credentials and background investigations.

Point of Contact



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Point of Contact

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